



**Customized
Energy Solutions**

Analyze · Simplify · Implement

CES CONSULTING

**Energy Consulting for
North American Markets**

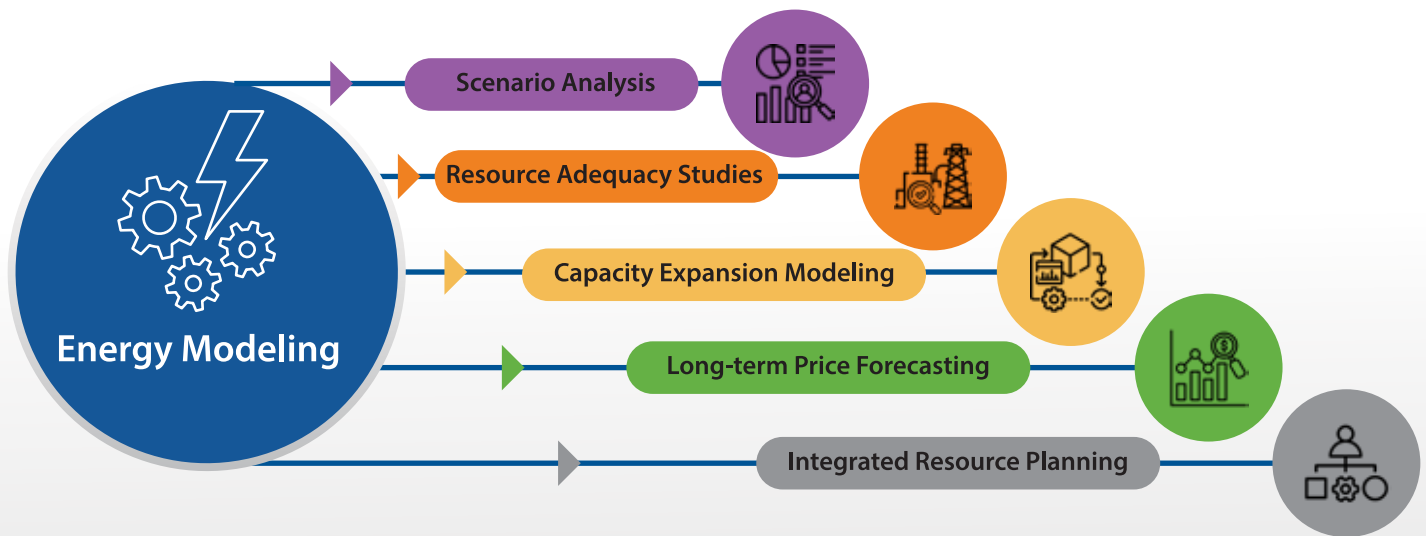
22,000+MW

of Projects Assessed
in 7 Years

- Market Overview
- Revenue Forecasts
- Long Term Price Forecast
- Financial Due-Diligence
- PPA & Offtake Consulting
- IRP Planning & Supply Chain Strategy
- Behind-the-Meter Projects

Energy Modeling

Production Cost Modeling Solutions



CES CoMETS

Dispatch Optimization & Revenue Forecasting Platform

Comprehensive Market Evaluation Tools for Storage (CoMETS) represents our set of advanced optimization models for storage dispatch, revenue forecasts and investment decision making for standalone, hybrid and behind-the-meter projects.



■ Customizable Models and Use Cases

■ Market Price Forecasts

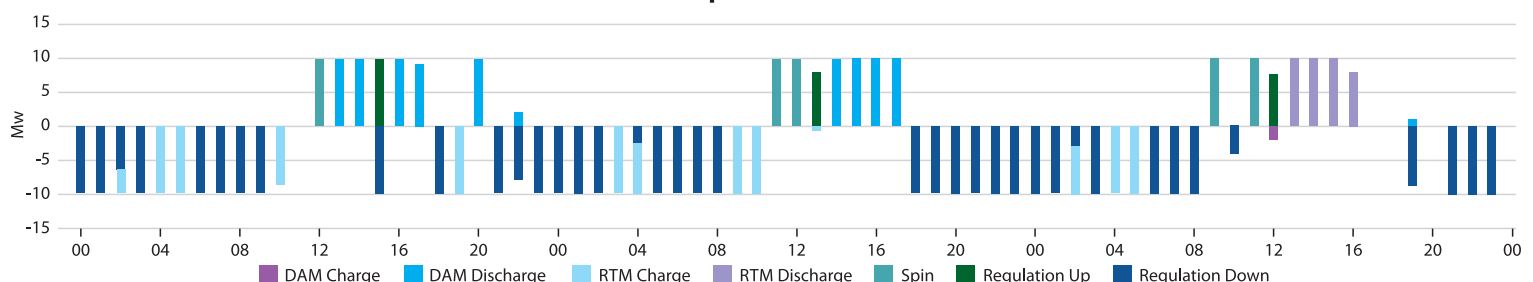
■ Degradation and Augmentation Models

■ Advanced MILP Optimization

■ Hourly and Sub-Hourly Dispatch

■ Revenue and Financial Models

ESS Dispatch Schedules



Energy Storage & Generation Projects

BESS / LDES / Solar / Wind / Thermal Generation / Hybrid / Co-located
Empower Your Projects with Advanced Tools and Expert Guidance

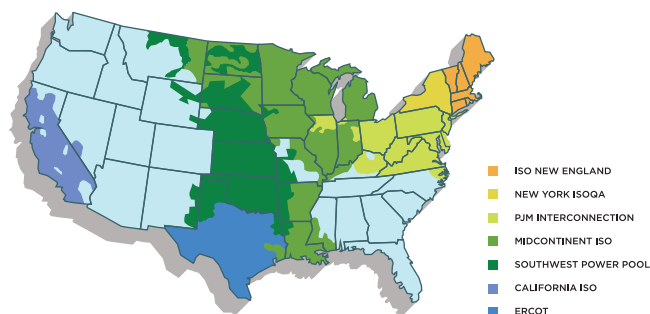


Market Deep Dive Reports

Customized reports that provide the most up-to-date information on current status, key rules and forthcoming changes for energy storage-based projects to participate in wholesale capacity, energy and ancillary services markets.

Get actionable insights from our market experts on deploying and operating storage projects in competitive electricity markets.

- ERCOT
- CAISO/EDAM
- PJM
- ISO-NE
- NYISO
- MISO
- SPP
- Markets+ (coming soon)
- IESO/AESO

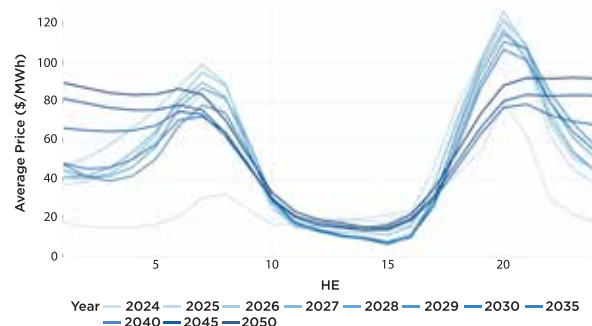


Market Price Forecasts

Our market price forecasts are created using industry-leading Production Cost Modeling software which evaluates electricity market dynamics by simulating generation, transmission and market operations. For each market, we use carefully curated reference cases which reflect our view on market fundamentals in the future.

- Zonal & Nodal LMP Forecasts
- Basis Risk
- Frequency Regulation
- Capacity/RA Prices
- Reserves & Ancillary

ERCOT North - Annual Average Price Curves



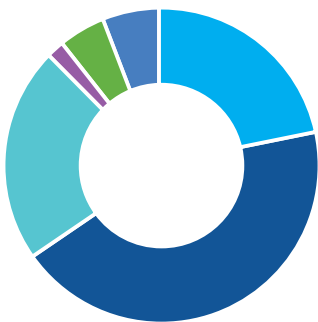
Revenue Forecasts and Financial Optimization

Powered by CES CoMETS, our dispatch optimization and revenue forecasting platform, we offer investment-grade revenue forecasts and pro-forma financial models for energy storage-based projects.

- Market Price Forecasts & Scenario Analysis
- Hourly/Sub-Hourly Dispatch
- Annual Revenues by Application
- Operational Metrics
- Cost and Financial Inputs
- Augmentation Schedule
- Financial Statements

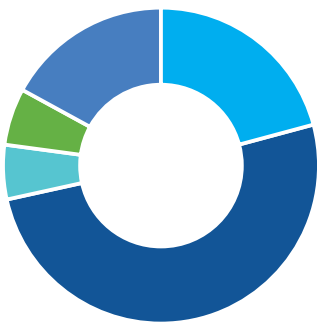
Annualized Revenues [\$ / kW / Year]

Market Saturation Scenario



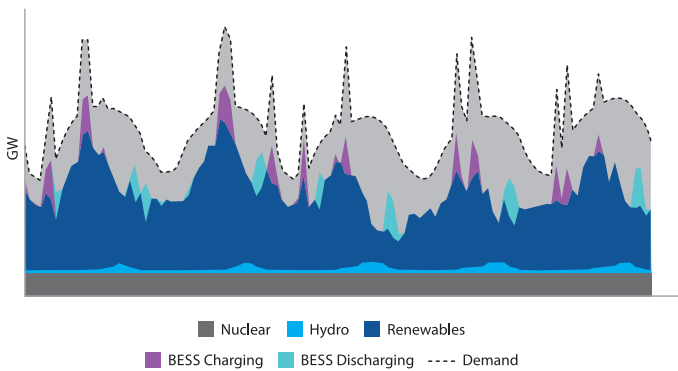
- Energy Discharge Revenue
- Frequency Regulation Down Revenue
- Energy Charging Cost

Low Saturation Scenario



- Capacity
- Frequency Regulation Up Revenue
- Spinning Reserves Revenue

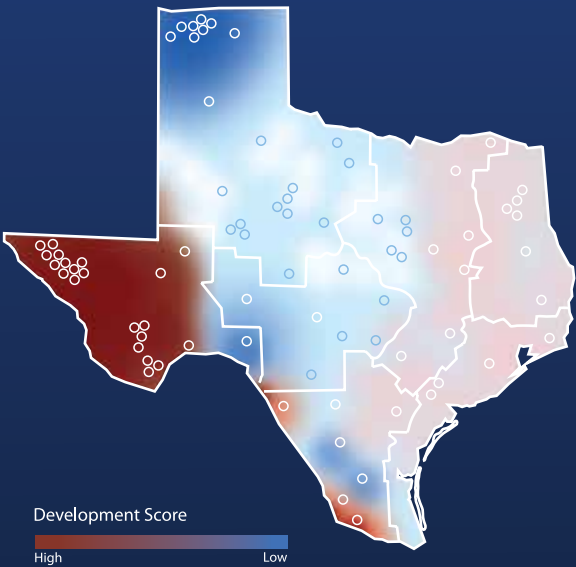
Forecasted Fleet Dispatch – Summer 2035



Developer Support Services

We provide a range of offerings to support project developers identify high-value sites, perform due diligence, right-size equipment, and save costs.

- PPA & Tolling Consulting Support
- Siting Support (Development Score)
- Vendor Selection Support
- Commercial & Technical Due-Diligence Risk
- Obligation and Warranty Reviews



PPA and Offtake Consulting

Case Study – Offtake Advisory Services



- Objectives**
- Support project developer with offtaker assessment and contract structuring. Advise on PPA negotiations including pricing and risk assignment.



- Analysis/Insights**
- Assess market of available offtakers, including co-location with data centers and C&I customers.
 - Analyze tariff structures in regulated utility territory and VPPA opportunities in wholesale markets.
 - PPA price modelling & Review of contract terms for risk assesment.



- Outcomes**
- Offtaker and contract structure recommendations
 - PPA price forecast
 - Contract negotiation advisory services

Storage Incentives, Policy & Strategy

Benefit-Cost Analysis (BCA Analysis)

Developing Policies to Accelerate Energy Storage Deployment

Background & Need :

- Background & Need
- Partnered with the Connecticut Green Bank (CGB) to assess the market for front-of-the-meter (FTM) storage.
- Analyzed barriers to entry, market opportunities, and program structures.
- Conducted a Benefit-Cost Analysis (BCA) of incentives to support FTM storage adoption.

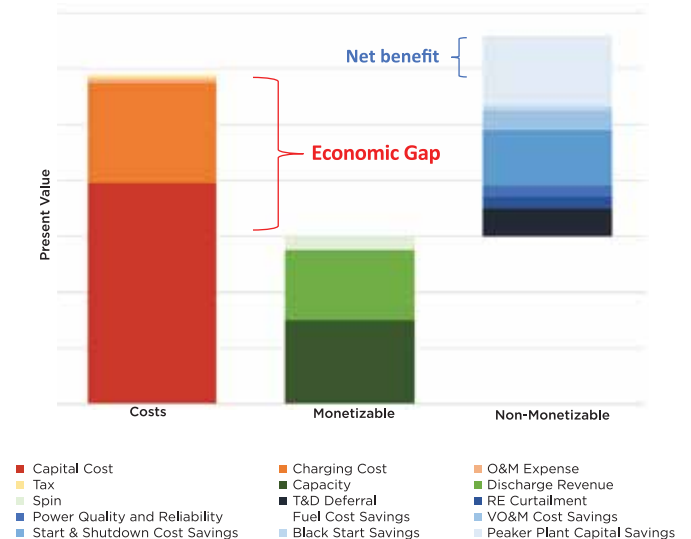
Our Approach

- Engaged stakeholders through targeted data collection and solicitation reviews.
- Identified key market and regulatory barriers slowing FTM development.
- Modeled diverse project configurations and sensitivities to assess financial viability.
- Analyzed the economic gap between levelized costs and revenues for FTM storage projects.
- Completed a comprehensive BCA from both total resource and societal perspectives.

Key Findings & Recommendations

- Close the Economic Gap – Policy interventions are needed to bridge cost-revenue gaps for storage deployment.
- Proven Net Benefits – BCA results show FTM storage delivers positive returns for both the grid and society.
- Tariff Redesign – Engage stakeholders to align storage tariffs with cost causation while enabling beneficial operation.
- Clarify Rate Treatment – Remove ambiguity in rate structures for distribution-connected resources to encourage investment.

Illustrative Costs and Benefits



Massachusetts Clean Peak Market Outlook (CPMO)

Stay ahead in the evolving Clean Peak Standard (CPS) market with the CPMO—your trusted resource for actionable intelligence on market fundamentals, key dynamics, and critical uncertainties. We deliver clear, data-driven projections for Clean Peak Energy Certificate (CPEC) supply and demand, along with spot and long-term price forecasts to power your strategic decisions.

The CPMO Subscription Includes:

- Market Outlook Briefing – A deep dive into CPS market trends, drivers, and forecasts.
- Project Strategy Briefing – Tailored insights to optimize your project positioning and returns.
- Subscriber Strategy Session – Exclusive interactive discussions to address your priorities.
- Insight Sessions – Targeted analysis on emerging market developments and policy impacts.
- CPS Essentials & CPEC Curves – Foundational market intelligence and forward price curves.
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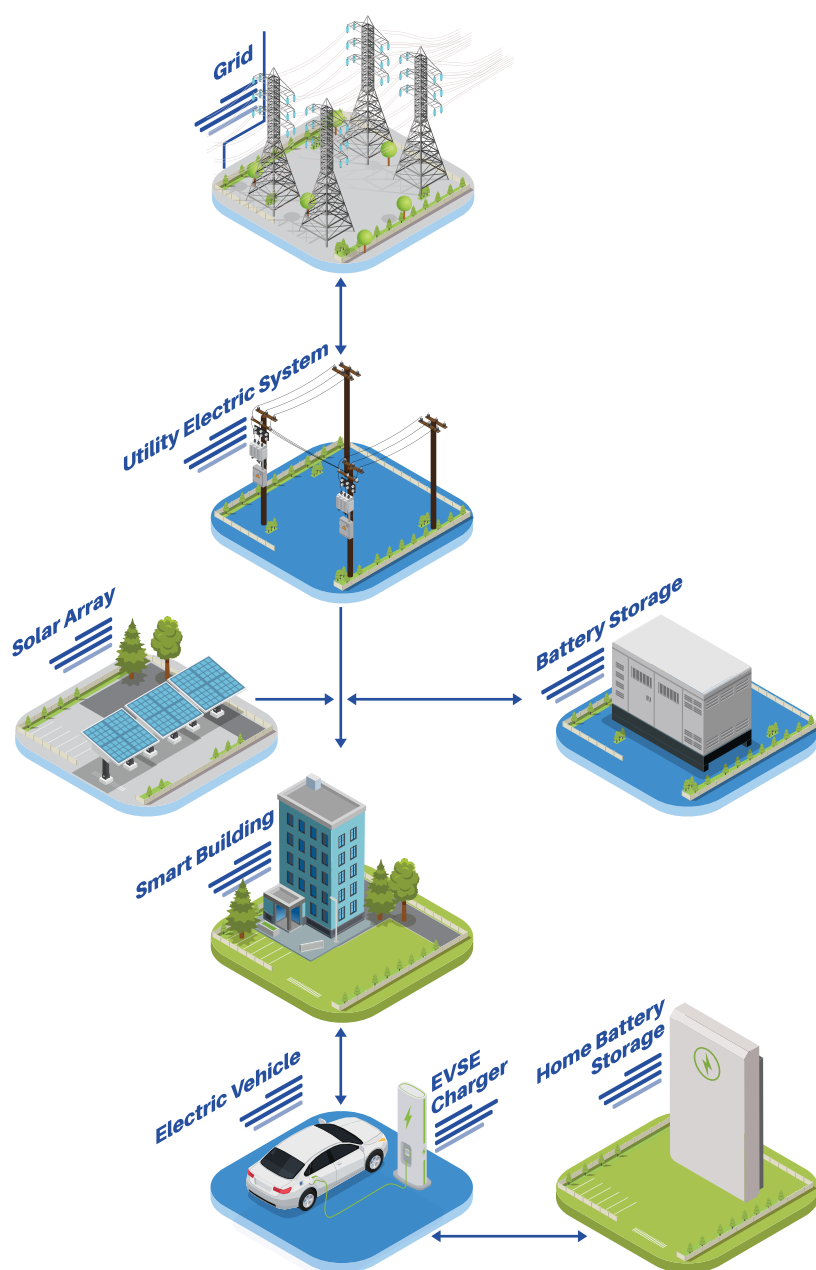
Turn market complexity into opportunity with CPMO's expert analysis, scenario modeling, and strategic guidance.



Behind-the-Meter Renewable & Storage Project Analysis

Leverage CES market expertise, proven storage dispatch experience and our time-tested CoMETS modeling platform to maximize project value:

- **Strategic Co-Location** – Identify opportunities to pair renewable and storage assets with large loads, such as data centers.
- **Right-Sized Solutions** – Determine the optimal project size using detailed load profile analysis and applicable tariff structures.
- **State Program Participation** – Assess eligibility for incentives like Massachusetts' Clean Peak Standard and ConnectedSolutions.
- **Wholesale Market Integration** – Evaluate participation pathways and revenue potential in wholesale markets.
- **Flexible Deal Structures** – Develop tailored Virtual PPA or Physical PPA agreements aligned with revenue opportunities.
- **Financial Performance Analysis** – Model long-term financial viability to ensure strong returns on renewable and storage investments.



Battery Manufacturing & Supply Chain Consulting

Optimize Your Battery Supply Chain for Maximum Efficiency and Profitability

We help you unlock the full potential of your battery business—from tracking critical materials across the global value chain to developing winning strategies for manufacturing, sourcing, and market expansion. Our expert advisory services are tailored to participants across the Battery Manufacturing & Supply Chain (BMSC) sector.

Battery Value Chain Advisory

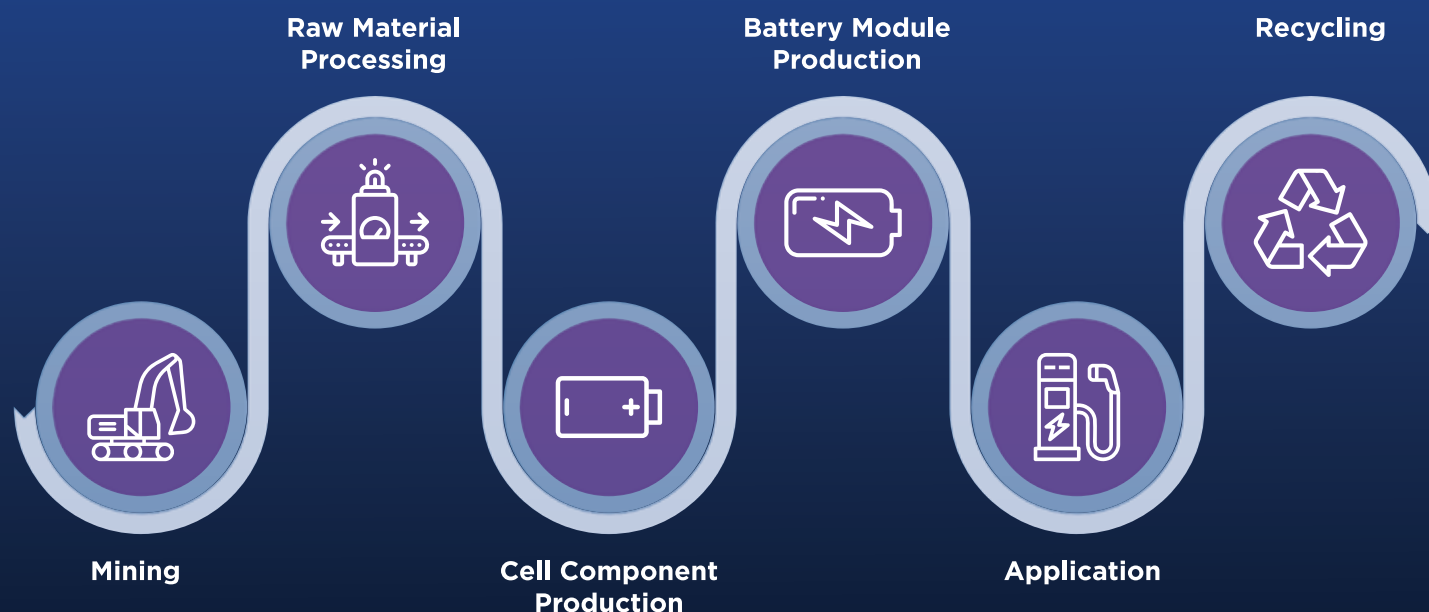
- **Materials & Market Intelligence** – Track global raw material prices, contracts, vendor activities, and market movements. Leverage quantitative analyses to inform cell price forecasts, benchmark pricing, and monitor worldwide manufacturing trends and battery demand.
- **Sourcing Strategy & Partnerships** – Conduct global market research, value chain segmentation, vendor identification, technology and cost benchmarking, and forge connections with international suppliers to create technology partnerships and market entry strategies.

Investment & Technology Advisory

- **Cell Chemistry Expertise** – Assess applications, usage, and raw material needs for evolving chemistries including LFP, NMC, LMFP, and LTO. Provide quantitative and economic analyses to guide investment and technology decisions.
- **Technology Mapping & Assessment** – Benchmark current and emerging chemistries, evaluate performance, and assess commercialization timelines to align your R&D and market strategies.

Cell Manufacturing & Strategy Development

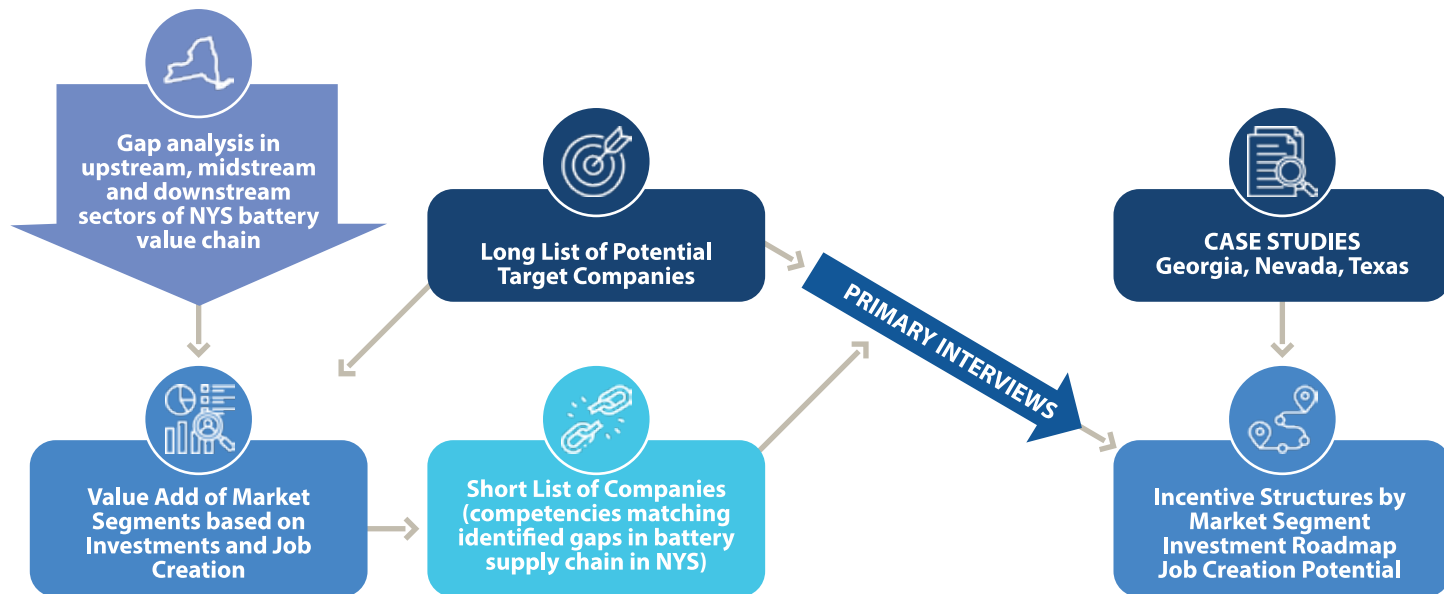
- **Business Strategy & Planning** – Identify target markets, estimate TAM, SAM, and SOM, plan capacity, assess risks, and create mitigation plans to guide entry or expansion in the storage business.
- **Technology Partnerships & Sourcing** – Conduct techno-commercial due diligence, identify joint venture opportunities, and design sourcing strategies to accelerate time-to-market and maximize business outcomes.



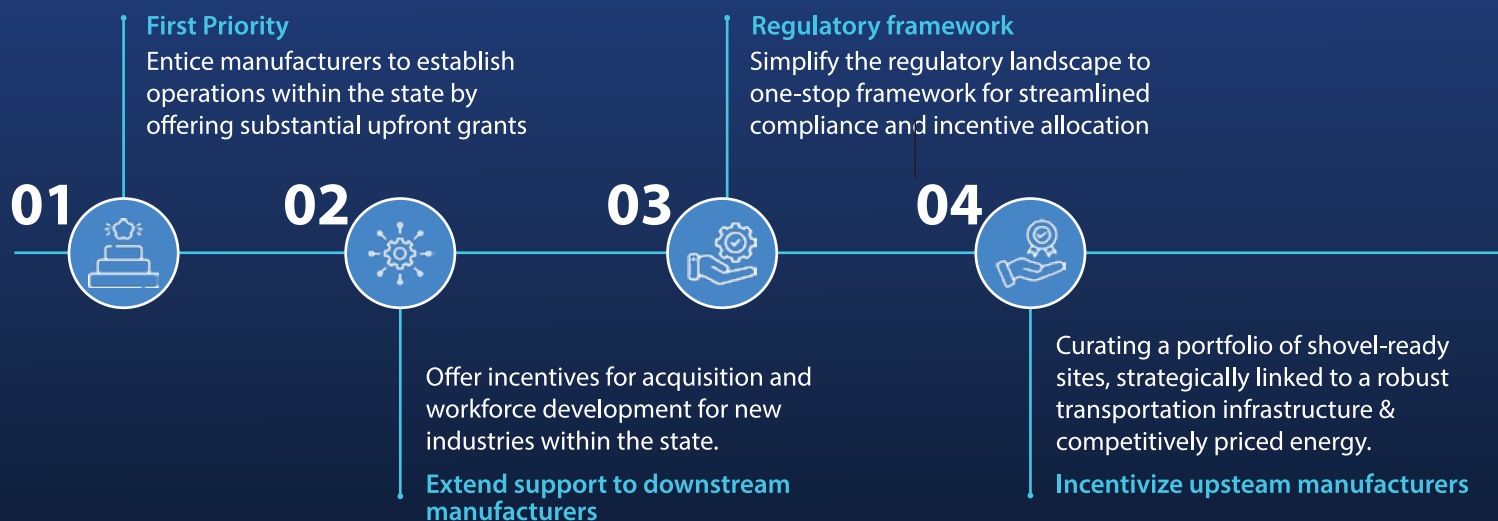
Battery Storage Supply Chain Consulting

Driving Energy Storage Investment in New York

CES has partnered with the New York Battery and Energy Storage Technology Consortium (NY-BEST) on multiple strategic initiatives to accelerate the state's clean energy future. Our work has included pinpointing the most promising value streams within the BESS supply chain, developing a targeted investment roadmap for high-impact market segments, and conducting proactive outreach to attract and engage potential investors. Through this combination of market insight, strategic planning, and stakeholder engagement, CES has helped position New York as a leader in energy storage innovation and economic growth.



Investment Roadmap



CES GridBOOST

Asset Optimization Platform

GridBOOST leverages CES's deep expertise with wholesale energy and ancillary services markets, storage project valuation and asset monitoring and operations to optimize performance and maximize revenues for your asset. GridBOOST is integrated with ISO/RTO scheduling interfaces for automatic bid offer submittals, awards and verification.

Resource Specification & Market Protocols

Integrates asset specifications and operational constraints with market rules.

Advanced Bid-Offer Optimization

Multiple strategies based on asset characteristics and risk tolerance.

Scheduling & Settlement Dashboards

Integration with CES market scheduling interfaces with performance dashboards.

ML-based Price Forecasts

Hourly price forecasts for energy and ancillary services.

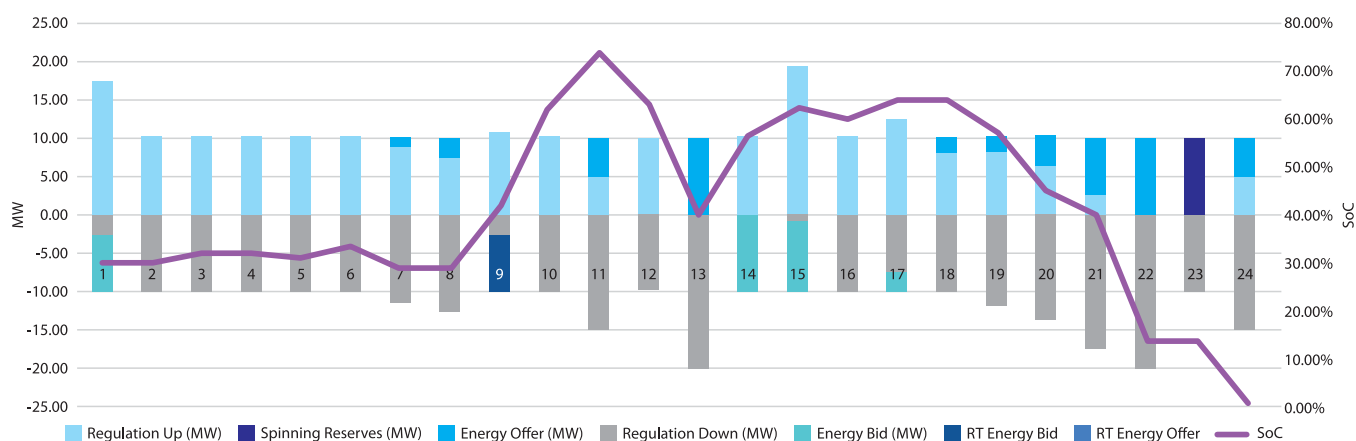
Real Time Web Displays

Real-time operational telemetry data from asset and markets.

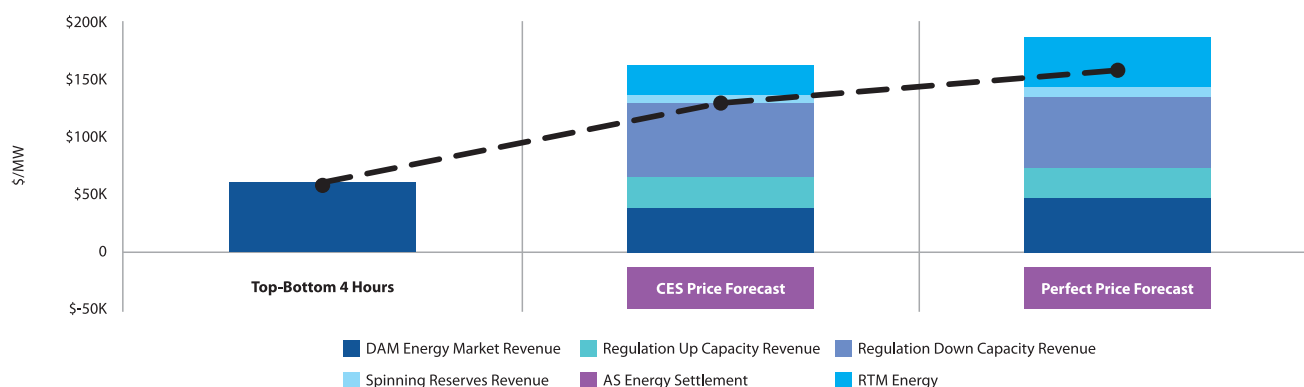
US Markets Coverage

Available for ERCOT, CAISO and ISO-NE and more to come.

Sample Dispatch for 10 MW BESS in CAISO



GridBOOST Performance in CAISO: Standalone Storage Revenue Comparison for 2023



About CES

Established in 1998, Customized Energy Solutions (CES) is a global energy advisory, software and services company that works with clients to navigate the wholesale and retail electricity markets across the United States and globally. CES offers software solutions, back office operational support, advisory and consulting services focused on emerging technologies, asset optimization and wholesale energy market participation. CES is headquartered in Philadelphia, USA with other global offices in India, Japan and Vietnam.

Customized Energy Solutions is proud to have been recognized 11 times in Inc. 5000 as one of the most successful companies in the United States.

Customized Energy Solutions is committed to promoting economic development through the advancement of transparent, efficient and nondiscriminatory wholesale and retail electricity markets. CES focuses on empowering clients by sharing a detailed understanding of the workings of the energy markets and related new technologies and supporting our clients' operations in those markets.

CES Across the Globe



■ USA – Corporate Headquarters 1528 Walnut Street, 2nd Floor Philadelphia, PA 19102 215.875.9440 info@ces-ltd.com	■ India – Headquarters A-501, G-O Square Aundh-Hinjewadi Link Road Wakad, Pune 411057, India +91 202.771.4000
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■ Japan 〒150-0036 16-28 Nanpeidaicho, Shibuya-ku, Tokyo Daiwa Shibuya Square 6th floor

■ Vietnam 11 Bis Phan Ngu Street, Da Kao Ward, District 1 Ho Chi Minh City, Vietnam

Take the Next Step

Rishi Diwan Director-BD (North America) rishi.diwan@ces-ltd.com | Ann Yu VP (North America) ayu@ces-ltd.com